

ENGLISH ABSTRACT FOR JP57030776 (& JP83046277)

1 / 1 WPAT - Thomson Derwent

Accession Nbr :

1982-24936E [13]

Title :

Heat curing, water resistant, stable adhesive compsn. - comprising dispersion of partially saponified PVAC, aq. soln. of polyurethane and isocyanate cpd.

Derwent Classes :

A14 A25 A81 G03

Additional Words :

POLYVINYL ACETATE

Patent Assignee :

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Nbr of Patents :

2

Nbr of Countries :

1

Patent Number :

JP57030776 A 19820219 DW1982-13 6p *

JP83046277 B 19831015 DW1983-45

Priority Details :

1980JP-0104403 19800731

IPC s :

C09J-003/16

Abstract :

JP57030776 A

Adhesive compsn. (I) comprises (A) a dispersion of partially saponified polyvinyl acetate; (B) an aq. soln. of polyurethane; and (C) an isocyanate cpd. (A) is obtd. by emulsion polymerisation of vinyl acetate to PVAc, having a deg. of polymerisation above 4000, and saponifying the PVAc in aq. dispersion to 1-30 mole % saponification deg. and (B) is an aq. soln. of a resin obtd. by (i) reacting a polyester polyol (b-1) with an organic polyisocyanate (b-2) to prepare a prepolymer having terminal isocyanate gps.; (ii) extending the chain length of the prepolymer with a diamino cpd. in water; and (iii) neutralising the pendant COOH gps. with a basic cpd. The polyol polyester (b-1) has 500-5000 number average mol. wt. and contains at least one pendant COOH gp. per molecule, and is obtd. by reacting a glycol component contg. 10-70 equivalent % glycol of formula $\text{ROCH}_2\text{C(R)(COOH)-CH}_2\text{OH}$ (R is 1-3C alkyl), with a dicarboxylic acid component contg. 5-50 mole % aromatic dicarboxylic acid.

(I) has good water resistance, good viscosity stability with time during storage, and high setting speed when pressed by heating. When used for hot glueing of a plywood, the bonding strength of (I) is satisfactory even after releasing the pressure, defective bonding being hardly caused even when the thickness of the material to be bonded is uneven. There is no-decrease in bonding strength even when bonding is performed after allowing the material to stand for several mins. after applicn. of the adhesive.

Manual Codes :

CPI: A04-F08 A05-G02 A07-A04E A08-C09 A10-E09B A12-A04C A12-A05
G03-B02D2 G03-B02E4

Update Basic :

1982-13

Update Equivalents :

1983-45